What makes Hybrid HPC cloud the next big thing in technology?

HPC is trending—and how

From mapping the human genome and modeling the universe to creating complex deep neural networks and designing artificial intelligence models, high-performance computing (HPC) has taken the world by storm. Consider its potential ROI: \$463 per dollar invested (revenue growth) and \$44 per dollar of profit invested.¹

Why is it the favorite boardroom buzzword?





Manufacturing—Computer-aided engineering (CAE) models, supply chain management, and predictive maintenance



and artificial intelligence/deep learning (AI/DL)

• Solves complex challenges across verticals



• Unlocks innovative data-driven computing workloads such as high-performance data analytics (HPDA)

Life sciences and health—Drug discovery, clinical trials, and personalized medicine



Financial services—Risk, treasury, and customer analytics



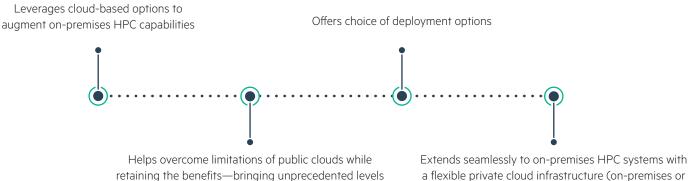
The CIO's top 3 challenges to implementing HPC

Rethink the data center strategy: From traditional data centers to unified, scalable data center operations, combining existing tools with new data center technologies

Bring in more agility: Leverage built-to-purpose IaaS and PaaS technologies inherited from the cloud

Enable less exposure to growing up-front investments: Implement models that can reduce up-front investments and accelerate deployment

Navigate the road to exascale computing with Hybrid HPC cloud



a flexible private cloud infrastructure (on-premises or off-premises) including IaaS and PaaS features

The value drivers of Hybrid HPC cloud

of flexibility, automation, and economics to HPC

HPC broader market (servers, storage, software, and service) will most likely expand at a 7.1% CAGR to more than \$39.2 billion in 2023, up from \$27.8 billion in 2018.² Here's why.

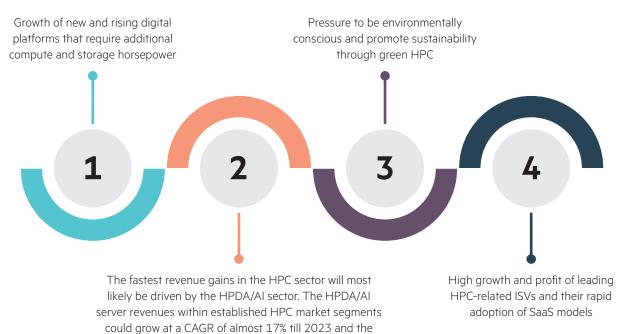
Reduces TCO for HPC workflows—private cloud systems can be precisely configured to maximize performance. Enhances security and compliance to protect highly sensitive information and workloads using a purpose-built HPC multitenancy as a core part of the HPC infrastructure.

Delivers higher value PaaS/SaaS capabilities to build, customize, and deploy HPC workflows.

 On-premises data center—entire HPC infrastructure is on-premises
 Flexible deployment options for options for your evolving meeds
 HPC private cloud on-premises—converts on-premises data center to a private cloud

 Using Tier-1 public cloud providers including HPC-specific technologies—public cloud that works across a broad range of general-purpose workloads
 meeds
 HPC off-premises—possibly managed services and/or private cloud

4 reasons why Hybrid HPC cloud adoption is soaring to new heights



new HPDA commercial analytics segments could see a CAGR of over 26% during the same timeframe.³

HPE Hybrid HPC cloud—the right mix to power your HPC workloads

A comprehensive portfolio of Hybrid HPC cloud components—based on the innovative foundational technologies from Intel®—comprising data center options delivered by the Partner Ready for Service Providers (PRSP) program and co-location partners, laaS and PaaS options, and a consumption-based model with HPE GreenLake Flex Capacity, a key building block of the HPE Hybrid HPC cloud offering.

Two brands turned their stories around with HPE Hybrid HPC cloud

<u>Siemens AG</u> transforms its IT infrastructure with HPE GreenLake Flex Capacity.

HudsonAlpha accelerates its search to cure insidious diseases with HPE Synergy solutions.

HPE delivers the hybrid experience to a T

Market leader in HPC with 34.8% market share⁴

Purpose-built Hybrid HPC cloud solutions portfolio developed jointly with ISVs and CSPs

Availability of HPC skills training, resources, and tools

Customized cross-industry applications and workflows

Choice of flexible financing and consumption models

Global, hands-on support

Explore Hybrid HPC cloud the HPE way. Read the white paper.

¹ HPC Market Update from Hyperion, April 2019

³ Market Forecast—Worldwide HPC Broader Market Forecast Update, 2018–2023, Hyperion Research, June 2019

⁴ A Vendor Shares View of the 2018 HPC Market, HPC Research, May 2019

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